SEARS FOUNDATION FOR MARINE RESEARCH
BINGHAM OCEANOGRAPHIC LABORATORY, YALE UNIVERSITY

JOURNAL OF MARINE RESEARCH

VOLUME II, 1939

NUMBERS 1–3

ISSUED 1939—TO JANUARY, 1940, NEW HAVEN, CONN., U. S. A.

JOURNAL OF MARINE RESEARCH

PUBLISHED BY

SEARS FOUNDATION FOR MARINE RESEARCH
BINGHAM OCEANOGRAPHIC LABORATORY, YALE UNIVERSITY

BOARD OF EDITORS

C. O'D. ISELIN
Woods Hole Oceanographic Institution

A. E. PARR
Bingham Oceanographic Laboratory

C.-G. ROSSBY
Massachusetts Institute of Technology

H. U. SVERDRUP
Scripps Institution of Oceanography

THOMAS G. THOMPSON
Oceanographic Laboratories University of Washington

MANAGING EDITOR

A. E. PARR
Bingham Oceanographic Laboratory
Yale University
New Haven, Conn.

ASSISTANT: *D. T. Pitcher*

ALPHABETICAL INDEX BY AUTHOR'S NAMES

Page

W. E. ALLEN: See SVERDRUP and ALLEN.

D. Q. ANDERSON: Distribution of organic matter in marine sediments and its availability to further decomposition (*No. 3, January 17, 1940*) 225

EDWARD M. BROOKS: Transport and convergence of the North Atlantic drift current computed from the average January pressure distribution (*No. 2, November 15, 1939*) 163

RICHARD H. FLEMING: Tables for Sigma — T (*No. 1, June 21, 1939*) 9

HELMUT M. HAENDLER and THOMAS G. THOMPSON: The determination and occurrence of aluminum in sea water (*No. 1, June 21, 1939*) 12

WILLIAM A. HORNE: See NEWCOMBE, HORNE, and SHEPHERD.

C. O'D. ISELIN: Some physical factors which may influence the productivity of New England's coastal waters (*No. 1, June 21, 1939*) 74

WOODROW C. JACOBS: See level departures on the California Coast as related to the dynamics of the atmosphere over the North Pacific Ocean (*No. 3, January 17, 1940*) 181

WOODROW C. JACOBS: A discussion of physical factors governing the distribution of micro-organisms in the atmosphere (*No. 3, January 17, 1940*)... 218

MARTIN W. JOHNSON: The correlation of water movements and dispersal of pelagic larval stages of certain littoral animals, especially the sand crab, Emerita (*No. 3, January 17, 1940*) 236

WILHELM JORGENSEN and C. L. UTTERBACK: Periodic changes in spectral scattering and spectral transmission of daylight in tidal water (*No. 1, June 21, 1939*) 30

EUGENE C. LA FOND: Variations of sea level on the Pacific coast of the United States (*No. 1, June 21, 1939*) 17

CURTIS L. NEWCOMBE, WILLIAM A. HORNE, and BOLAND B. SHEPHERD: Studies on the physics and chemistry of estuarine waters in Chesapeake Bay (*No. 2, November 15, 1939*) 87

GORDON A. RILEY: Correlations in aquatic ecology (*No. 1, June 21, 1939*).. 56

GORDON A. RILEY: Plankton Studies. II. The Western North Atlantic, May–June, 1939 (*No. 2, November 15, 1939*) 145

SYDNEY C. RITTENBERG: Investigations on the microbiology of marine air (*No. 3, January 17, 1940*) 208

REX J. ROBINSON: See THOMPSON and ROBINSON.

Page

C.-G. ROSSBY: Relation between variations in the intensity of the zonal circulation of the atmosphere and the displacements of the semi-permanent centers of action (*No. 1, June 21, 1939*) 38

BOLAND B. SHEPHERD: See NEWCOMBE, HORNE, and SHEPHERD.

FLOYD M. SOULE: Consideration of the depth of the motionless surface near the Grand Banks of Newfoundland (*No. 3, January 17, 1940*) 169

H. U. SVERDRUP and W. E. ALLEN: Distribution of diatoms in relation to the character of water masses and currents off Southern California in 1938 (*No. 2, November 15, 1939*) 131

H. U. SVERDRUP: Lateral mixing in the deep water of the South Atlantic Ocean (*No. 3, January 17, 1940*) 195

E. F. THOMPSON: A rapid method for the determination of dynamic heights (or depth) at successive lowerings at an anchor station (*No. 2, November 15, 1939*) 126

THOMAS G. THOMPSON and REX J. ROBINSON: Notes on the determination of dissolved oxygen in sea water (*No. 1, June 21, 1939*) 1

THOMAS G. THOMPSON: See HAENDLER and THOMPSON.

C. L. UTTERBACK: See JORGENSEN and UTTERBACK.

R. T. YOUNG, JR.: Measurements on the transparency of sea-water off the coast of southern California (*No. 2, November 15, 1939*) 117